

# datelcare

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## 256 KILO BYTE ADD-IN MOS MEMORIES FOR Q-BUS BASED COMPUTER SYSTEMS.

### General

Datelcare combines its long experience with the reliability of state of the art 64 K dynamic RAMs to offer memories that will improve the performance of all systems based on 11/23 or 11/23-plus cpu's.

Low-cost and superior quality are features that are standard on all DTC products. The DTC-256 is compatible with all 16, 18 and 22 bit addressing schemes used on Q-bus systems. A one bit per byte parity is included in all modules.

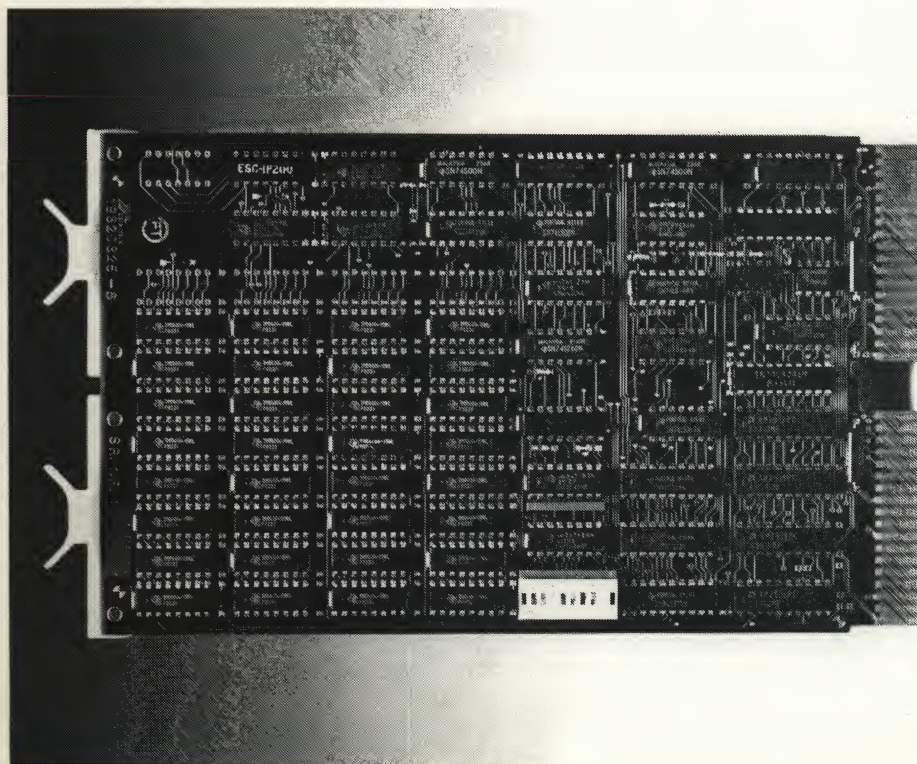
Depopulated versions can be provided for use in 11/02 and 11/21 (Falcon) based systems.

DTC-256 memories allow 4 MB addressing when used in 11/23 or 11/23-plus based computer systems, so minimizing swapping and further improving system-throughput.

This dual-width module needs a single +5 volt supply only. Power consumption is typically less than 7.5 watts. This means less heat dissipation and a lower demand on the system's power supply.

### Features

- \* 256 KByte module
- \* Standard dual-width board
- \* 4 MB addressing capability
- \* Includes parity bits
- \* Depopulated versions available
- \* Supports battery backup
- \* Fast 190 ns access time
- \* Compatible with all DEC hardware, diagnostics and software
- \* Needs only a single +5 volt supply



## Installation

DTC-256 memory modules can be installed in any Q-bus backplane. The 22 bit addressing scheme however requires a backplane that has all 22 address lines implemented.

All DTC-20/23xx and DEC 11/23-plus based systems are provided with this feature. If in doubt, consult your supplier.

## Parity

A 2 bit per word parity system is included in all DTC-256 modules. All 11/23 and 11/23-plus based systems sense parity for each memory-read cycle.

This method is fully compatible with DEC's MSV11-E memory modules.

## Part numbers

DTC-256 - 256 KB	includes parity
DTC-128 - 128 KB	includes parity
DTC-064 - 64 KB	without parity, for use in 11/02 and 11/21 systems
DTC-032 - 32 KB	without parity, for use in 11/02 and 11/21 systems

## Specifications:

### Timing:

Function	Access time	Cycle time
DATI	190 ns	490 ns
DATO (B)	90 ns	390 ns
DATIO (B)	700 ns	1000 ns

During memory refresh a delay of up to 500 ns can occur.

### Power supply:

+ 5 Volt      1,5 A maximum

## Quality assurance

Datelcare guarantees that all its products are built to the highest commercial standards. All modules are fully tested and temperature cycled prior to shipment.

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